

1) Sensing surface, 2) Data carrier, 3) Tightening torque, 4) LED (CP), 5) LED (Power)



Basic features

Antenna type	round
Approval/Conformity	CE FCC Part 15 IC RSS-210 cULus WEEE

Display/Operation

Function indicator	Power (ON), LED green CP (Code tag present), LED yellow Operating, LED yellow flashing
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Electrical connection

Connection	Male, 4-pin
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Electrical data

EN 300330-1	Power Class 5
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Environmental conditions

Ambient temperature	0...70 °C
Continuous shock load	yes
EN 60068-2-27, Shock	yes
EN 60068-2-32 Free fall	yes
EN 60068-2-6, Vibration	yes
Protection degree	IP67
Storage temperature	-20...85 °C

Functional Characteristics

Supported data carrier types	DIN ISO 15693 DIN ISO 15693 (High Memory)
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Functional safety

MTTF (40 °C)	212 a
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Material

Housing material	Brass, Brass nuts with white bronze, coated
Housing material, surface protection	coated

Mechanical data

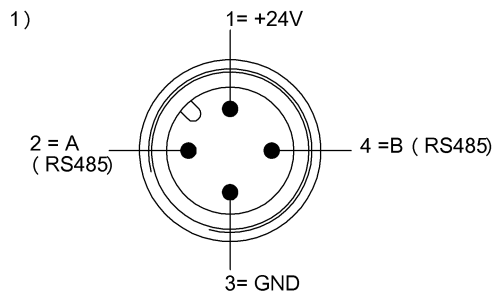
Application weight	60.00 g
Dimension	Ø 18 x 65 mm
Installation	metal-free (clear zone) on metal flush in metal
Size	M18x1

Remarks

Only together with BIS V-61xx
For basic equipment: Accessories see www.balluff.com
Use included nuts for installation.
Values are under rated conditions unless otherwise specified.
For more information about MTTF and B10d see MTTF / B10d Certificate

Indication of the MTTF- / B10d value does not represent a binding composition and/or life expectancy assurance; these are simply experiential values with no warranty implications. These declared values also do not extend the expiration period for defect claims or affect it in any way.

Connector Drawings

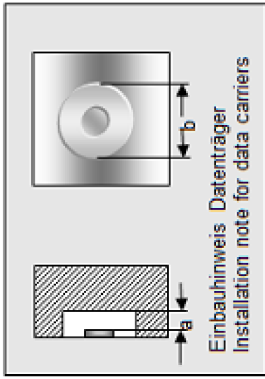


1) View towards connector

Help Views

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	BIS M-110-02/L	BIS M-142-02/A- XX	BIS M-142-14/A- XX	BIS M-143-02/A- XX
passende Datenträger Appropriate data carriers				
Abstand Datenträger zu Metall in mm (a) Data carrier distance to metal in mm	>25	>0	>0	>0
Freizone Datenträger in mm (b) Data carrier clear zone in mm	>100	>100	>100	>100
Schreibabstand in mm Write distance in mm	0-10	0-12	0-7	0-9.5
Leseabstand in mm Read distance in mm	0-10	0-12	0-7	0-9.5
Versatz in mm bei Abstand von	0 ±6	±7	±5	±5
	2 ±6	±7	±5	±5
	4 ±6	±7	±4.5	±5
	5 ±6	±7	±4	±5
	6 ±5	±5	±4	±4
	7 ±5	±5	±2	±4
	8 ±5	±5		±4
	9.5 ±3	±5		±2
	10 ±3	±3		
	12			
	15			
	20			
	25			
	30			
	35			
	40			
	45			
	50			
	55			
	60			
	65			



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	BIS M-105-02/A	BIS M-108-02/L	BIS M-108-1x/A	BIS M-122-02/A	BIS M-128-03/L
passende Datenträger Appropriate data carriers					
Abstand Datenträger zu Metall in mm (a) Data carrier distance to metal in mm	>20 >0 >0	>20 >0 >0	>20 >0 >0	>20 >0 >0	>20 >0 >0
Freizone Datenträger in mm (b) Data carrier clear zone in mm	>100 >100 >0	>100 >100 >0	>100 >100 >0	>100 >100 >0	>100 >100 >0
Schreibabstand in mm Write distance in mm	0-8.5 0-8 0-6	0-11 0-8 0-6	0-6.5 0-6 0-5	0-7 0-6.5 0-4.5	0-13
Leseabstand in mm Read distance in mm	0-8.5 0-8 0-6	0-11 0-8 0-6	0-6.5 0-6 0-5	0-7 0-6.5 0-4.5	0-13
Versatz in mm bei Abstand von	0 ±5 ±5 ±4	0 ±8 ±8 ±7	0 ±8 ±8 ±7	0 ±4.5 ±4 ±3.5	0 ±8 ±8 ±8
	2 ±5 ±5 ±4	±8 ±8 ±7	±8 ±8 ±7	±4.5 ±4 ±3.5	±8 ±8 ±8
	4 ±4.5 ±4 ±3	±8 ±7 ±6	±7 ±6 ±6	±4 ±3 ±2.5	±8 ±8 ±8
	4.5 ±4.5 ±4 ±3	±8 ±7 ±4	±7 ±6 ±3	±3.5 ±3 ±1.5	±8 ±8 ±8
	5 ±4.5 ±4 ±3	±8 ±7 ±4	±7 ±6 ±3	±3.5 ±3	±8 ±8 ±8
	6 ±4 ±3 ±2	±7 ±5 ±1	±4 ±3	±3.5 ±2	±7 ±7 ±7
	6.5 ±4 ±3	±7 ±5	±4	±2 ±2	±7 ±7 ±7
	7 ±4 ±3	±7 ±5			±7 ±7 ±7
	8 ±2 ±2	±7 ±4			±7 ±7 ±7
	8.5 ±2	±7			±7 ±7 ±7
	10	±7			±7 ±7 ±7
	11	±4			±4 ±4 ±4
	13				±4 ±4 ±4
	15				
	20				
	25				
	30				
	35				
	40				
	45				
	50				

